

2GR-FE LUBRICATION

SERVICE DATA

Oil pressure		Idle	80 kPa (0.8 kgf/cm <sup>2</sup> , 11.6 psi) or more
		6,000 rpm	380 kPa (3.9 kgf/cm <sup>2</sup> , 55.5 psi) or more
Oil pump	Tip clearance	Standard	0.060 to 0.160 mm (0.0024 to 0.0063 in.)
		Maximum	0.16 mm (0.0063 in.)
	Body clearance	Standard	0.250 to 0.325 mm (0.0098 to 0.0128 in.)
		Maximum	0.325 mm (0.0128 in.)
	Side clearance	Standard	0.030 to 0.090 mm (0.0012 to 0.0035 in.)
		Maximum	0.090 mm (0.0035 in.)

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## TORQUE SPECIFICATIONS

Part Tightened		N*m	kgf*cm	ft.*lbf
Oil pressure switch x Oil pan		15	153	11
Oil filter cap x Oil pan		25	255	18
Oil filter drain plug x Oil filter cap		12.5	127	9
Oil pan drain plug x No. 2 oil pan		40	408	30
Oil pump cover x Timing chain cover		9.0	92	80 in.*lbf
Plug x Oil pump cover		49	500	36
Timing chain cover x Cylinder block	Area 1, 2 bolt	21	214	15
	Area 3 bolt, nut	21	214	15
	Area 4 bolt A	43	438	32
	Area 4 except bolt A	21	214	15
Oil pan x Cylinder block	Bolt A	10	102	7
	Except bolt A, nut	21	214	15
Oil strainer x Cylinder block		10	102	7
No. 2 oil pan x Oil pan		10	102	7
Oil dipstick guide x Cylinder block		21	214	15
No. 2 oil dipstick guide x Cylinder head		21	214	15

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